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ATHENA MAPPING

Boundaries Training Resource Guide

Boundaries

Training Resource Guide

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PURPOSE OF THIS GUIDE

The Boundaries Resource Guide will provide you with explanations of the basic tools within Athena, walk you through the procedure of copying and creating boundaries within the software, as well as provide you with specific scenarios you may encounter as you begin to independently navigate the system within the User Stories section of this guide.

ATHENA BOUNDARY INTRODUCTION

Within the “Boundary Layer” the user will be building the boundaries that dictate how the rest of the system functions. The Boundaries that are integral to the continued functionality of the software include:

- Attendance
- Walk
- Hazard

The listed boundaries inform the eligibility rules that determine which students receive transportation, who does not need transportation because they are within a walk boundary or outside of the attendance boundary completely, or they dictate the streets that need to be avoided completely due to a present walking hazard.

ATHENA MAP ASSET KEY

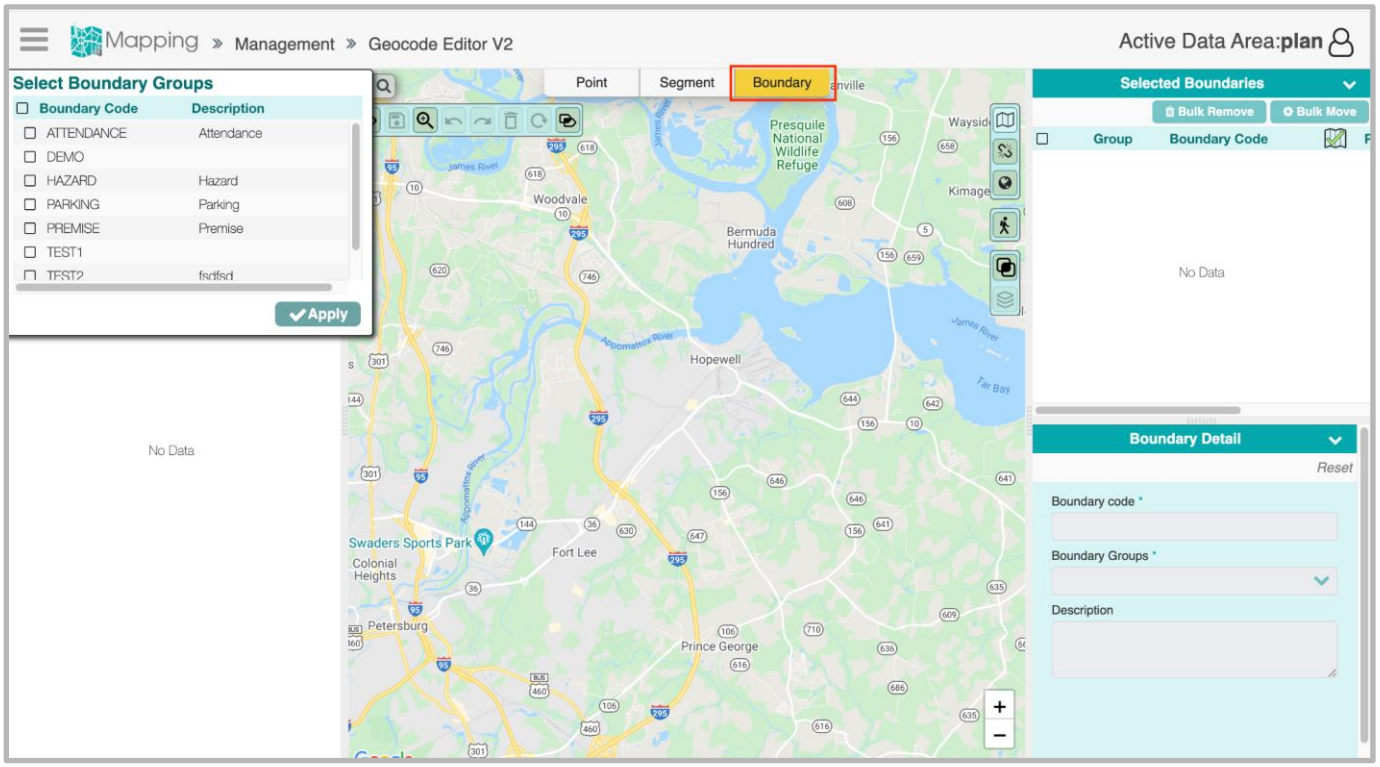
Symbol	Explanation	Symbol	Explanation
	Create		Delete
	Save		Reset
	Zoom To		Polygon Operations
	Undo		Remove Boundary Vertex
	Redo		Cancel

NAVIGATING THE BOUNDARY LAYER

1. **Getting Started:**
   Once logged in, select the Mapping application from the portal page.

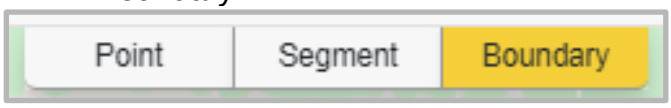
2. Select Geocode Editor in the action bar menu.

3. **Panel Layout:**
   The layout of the module is as follows:
   - Data Panel is on the left.
   - Map Panel is in the center.
   - Workspace Panel is on the right.

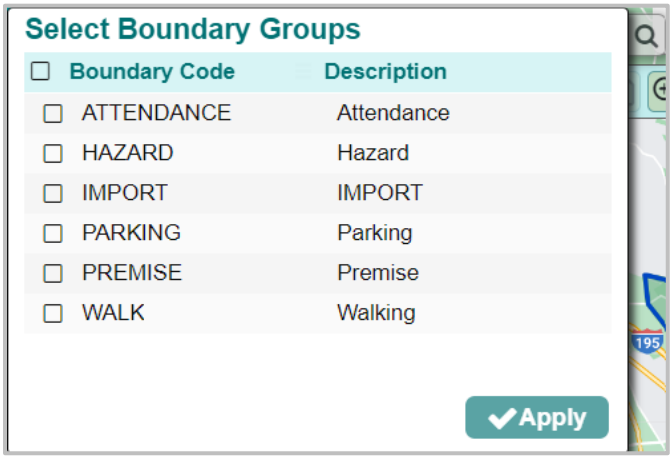


Data Panel *Map Panel* *Workspace Panel*

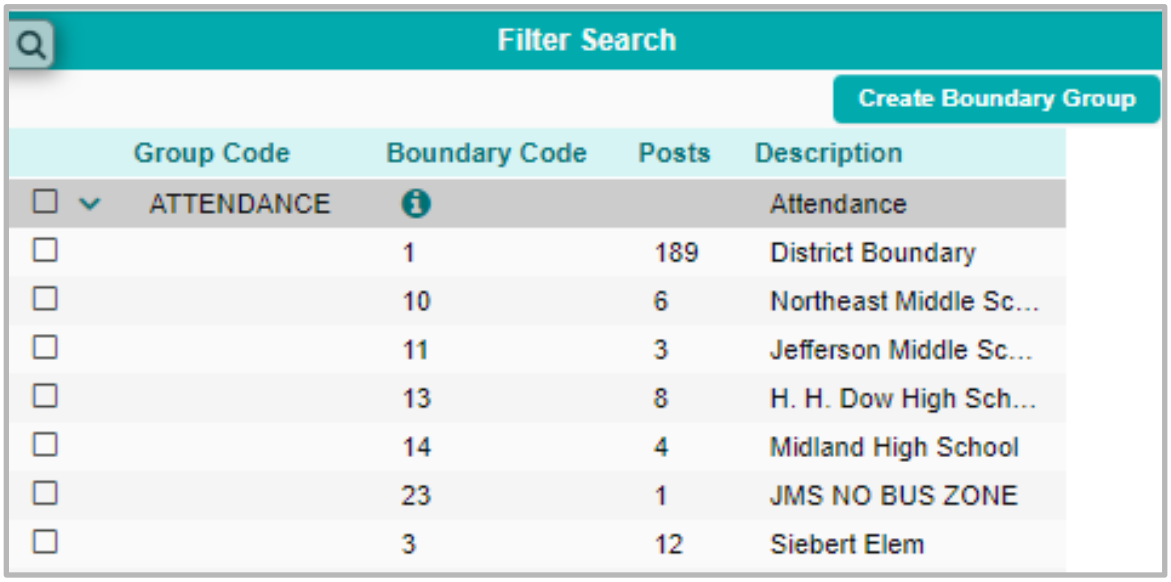
4. **Layers:**
   At the top of the Map Panel the user will find different layers to taggle between when working in the Geocode module:
   - Point
   - Segment
   - Boundary



5. **Boundary Layer:**
   When entering the Boundary Layer, and navigating to the “Boundary Search”; select a Boundary Group to query your search parameters.

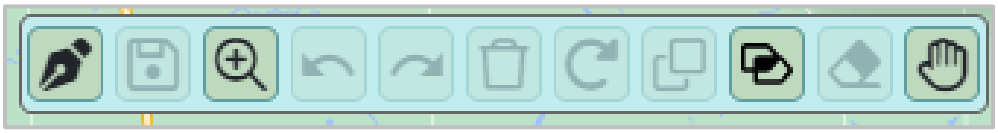


6. **Data Panel:**
   When selecting the “Attendance Boundary Group”, all attendance boundaries will be listed in the Data Panel, alongside the relevant boundary codes and descriptions.



7. Map Panel:

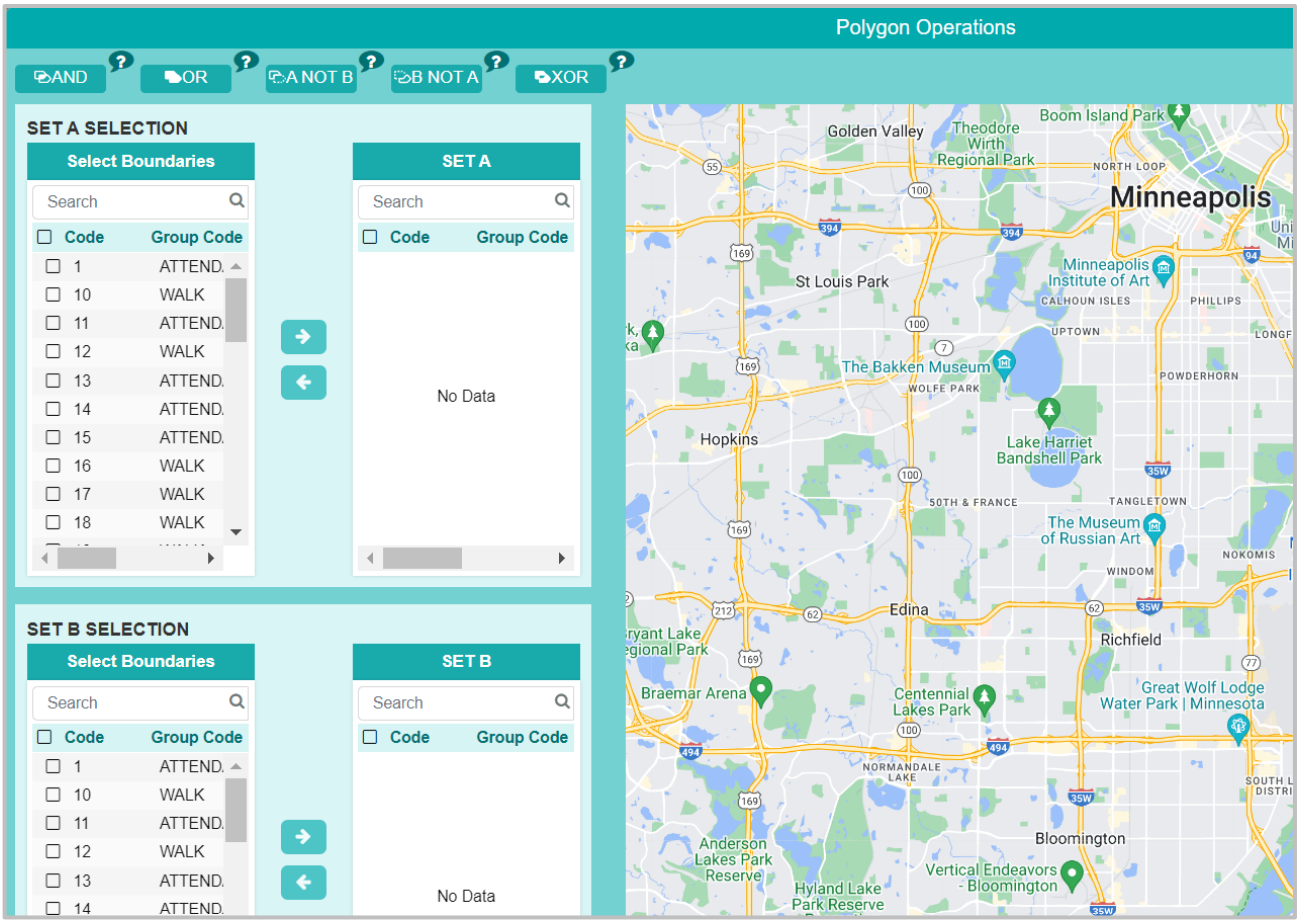
Within the Map Panel, the user has many tools for editing boundaries:



Tool	Description	Tool	Description
	The **Create** tool allows the user to begin creating/drawing a new boundary.		**Cancel**
	Zoom		**Undo** will allow you to revert back to previous steps in your changes, as long as you haven't saved.
	The **Delete** tool allows the user to delete a boundary that is not being used for a posting.		**Redo** allows you to reload the previous change following the user undoing that step.
	The **Clone Boundary** tool allows users to quickly copy an existing boundary, edit the clone, then replace the shape of the original boundary with the cloned boundary—this will preserve the original Boundary ID and posting with new the new shape data.		**Reset** will revert the data back to its original parameters, or to the last save.
	Remove Boundary Vertex enables users to delete a vertex or group of vertices from a boundary that has zero postings. This tool is unable to delete or remove the entire boundary.		**Save**

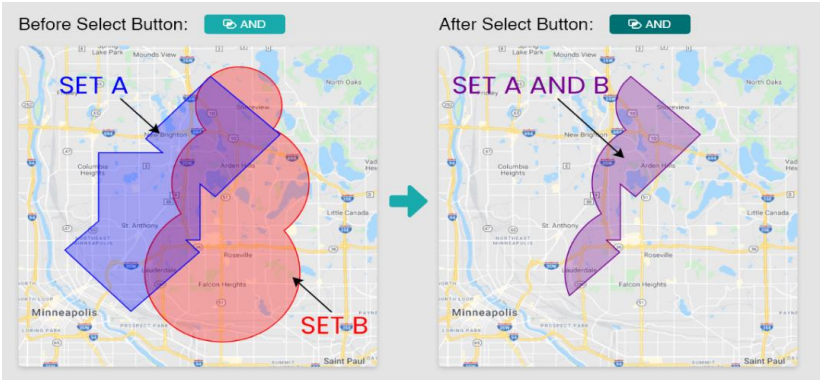
7.1. Polygon Operations:

When the user would like work with one or more boundaries the user will work within "Polygon Operations".

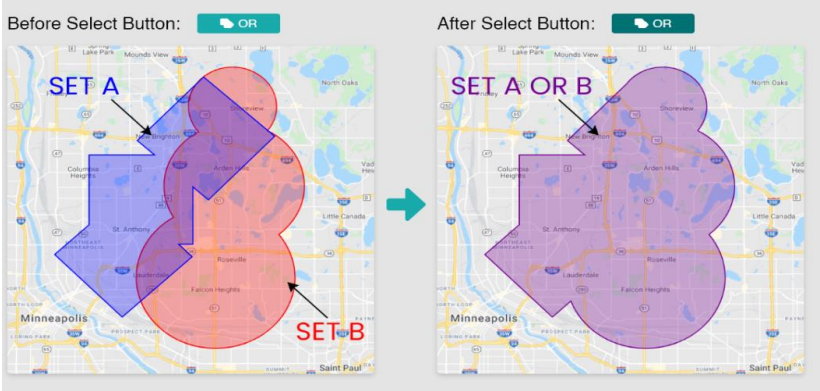


Within the Polygon Operations window, the user can investigate the examples of how the different polygon operations (and, or, B not A, etc) produce a new boundary.

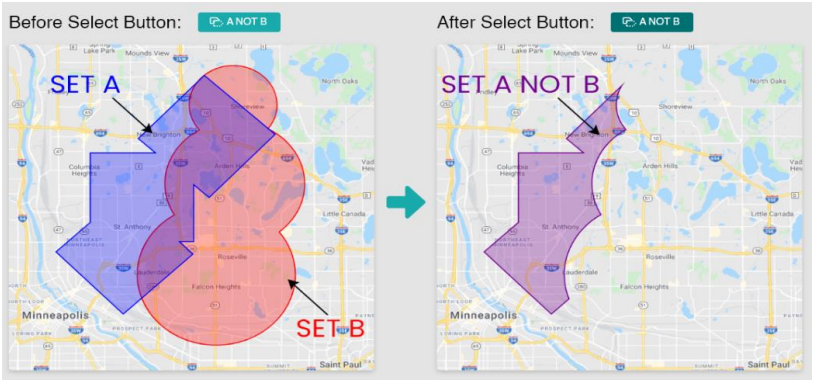
a.) AND Operator:



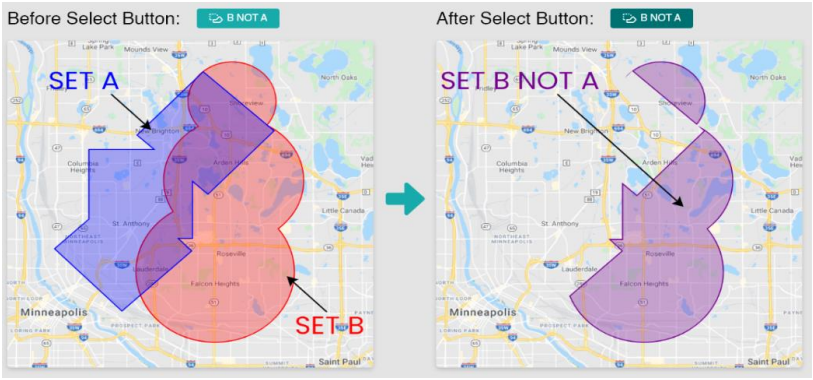
b.) OR Operator:



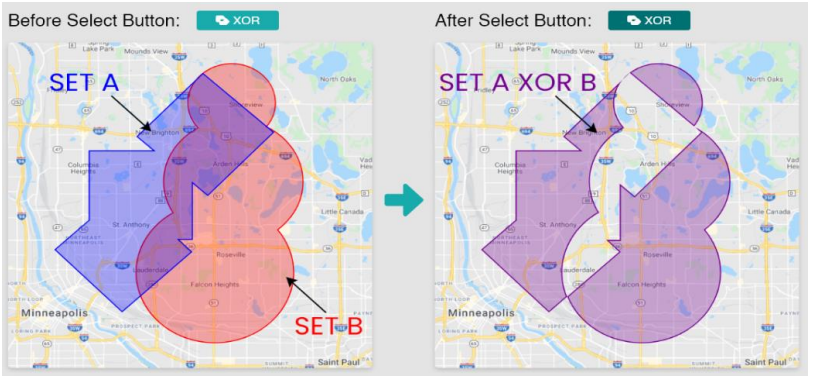
c.) A Not B Operator:



d.) B Not A Operator:



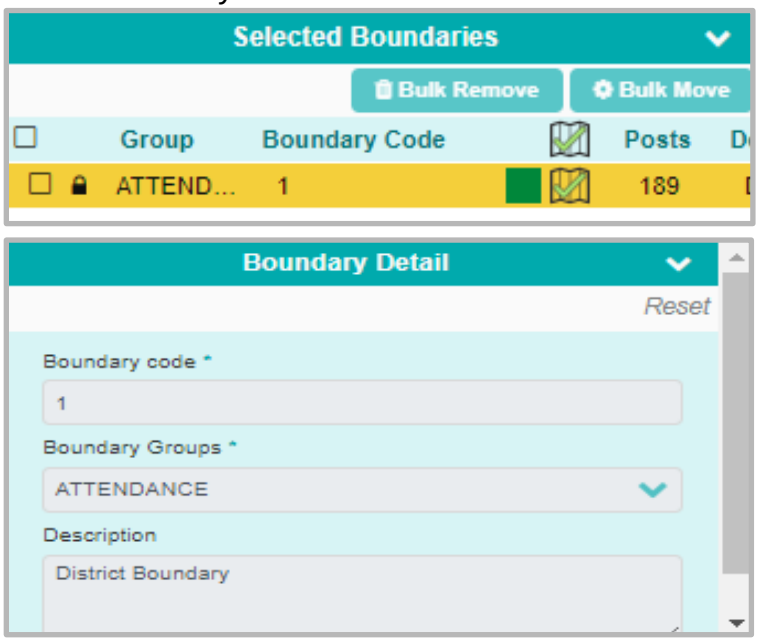
e.) XOR Operator:



8. Workspace Panel:

Within the Workspace Panel, the user will see two cards:

- Selected Boundaries
- Boundary Details



ATHENA USER STORIES

The User Stories section of this guide will offer you scenarios that are applicable to some of the workflows you might encounter in your day-to-day tasks within Athena. Some scenarios that will be discussed include:

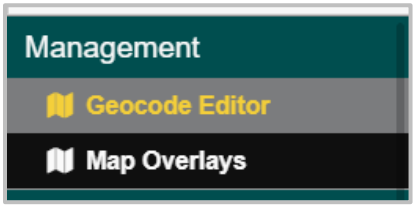
- Copy a Boundary
- Create New Boundary
- Remove Boundary Vertex

1. Copy a Boundary

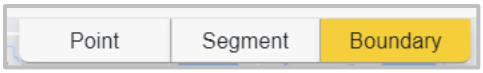
The district would like to adjust and expand the attendance boundary, and to do so they will make a clone of the boundary to be able to edit the boundaries shape, before replacing the original boundary with the corrected cloned copy.

Here's How:

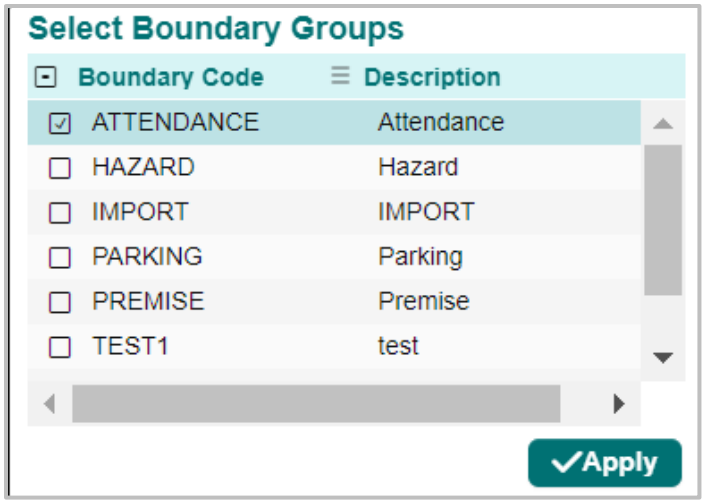
1. Navigate to the "Geocode Editor" in the action bar.



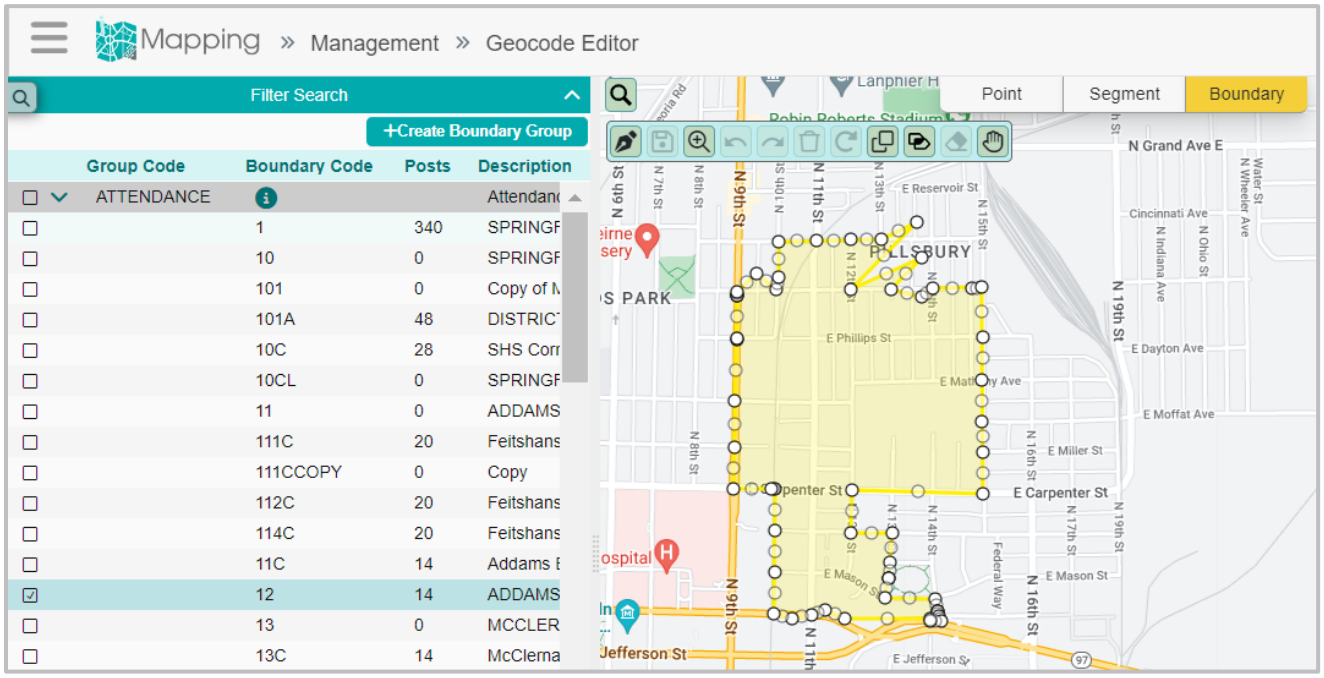
2. **Layers:**
   Select the Boundary Layer.



3. In the search tray select the Attendance Boundary, and 'Apply'.

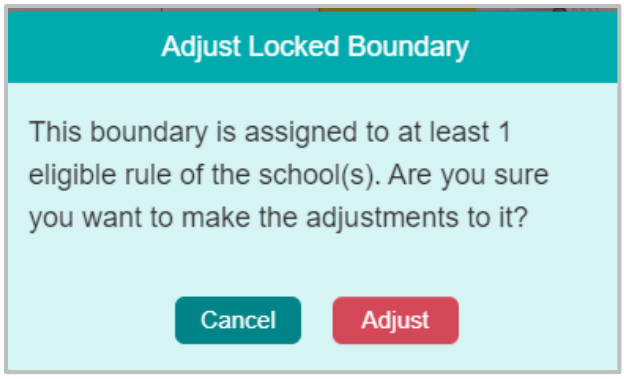


4. Select Boundary ‘12’ within the Data Panel to view the boundary graphically on the map.

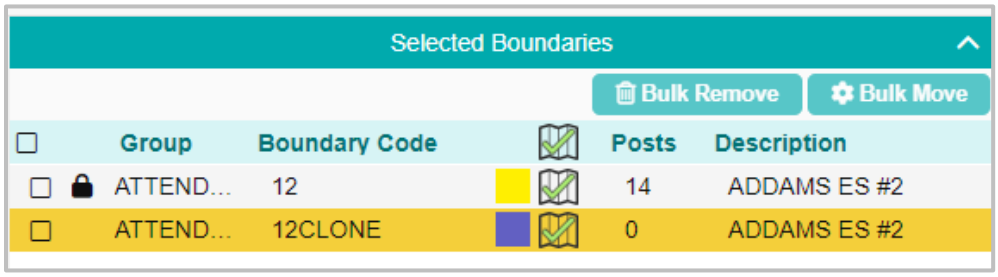


5. Once the Boundary is loaded on the map, select the “Clone Boundary” tool within the Map Panel toolbar.

Selecting the tool will populate the following confirmation window:

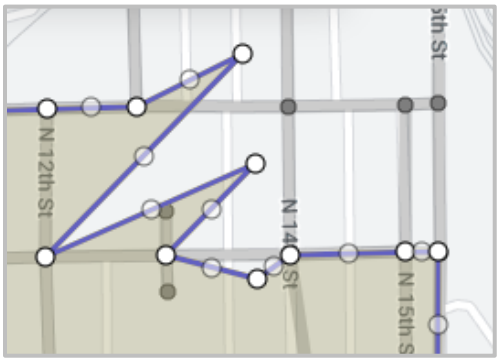


The user will additionally see the newly cloned boundary populate within the “Selected Boundaries” card.



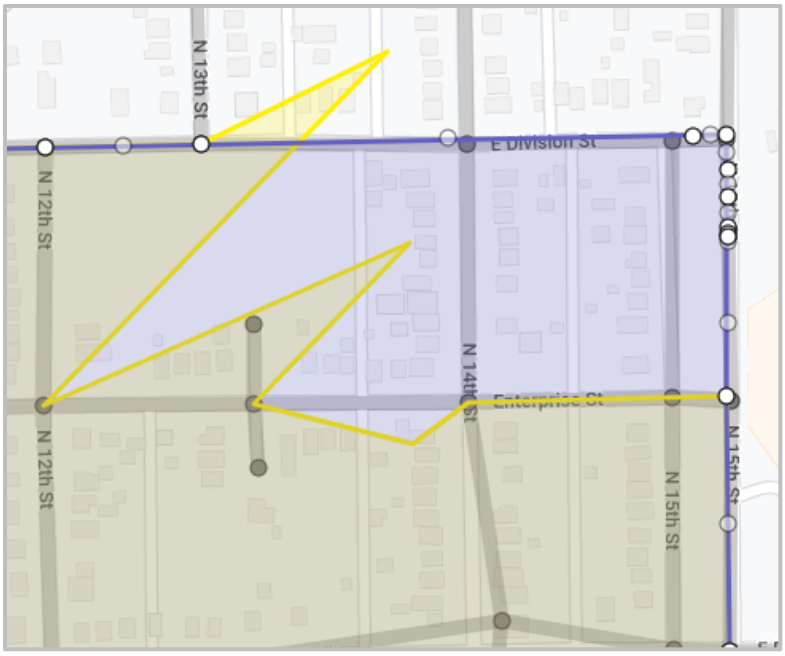
5.1. Once the boundary is cloned, the user can begin editing the shape on the map to reflect the needed changes.

Original Boundary:

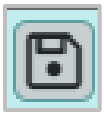


Cloned Boundary:

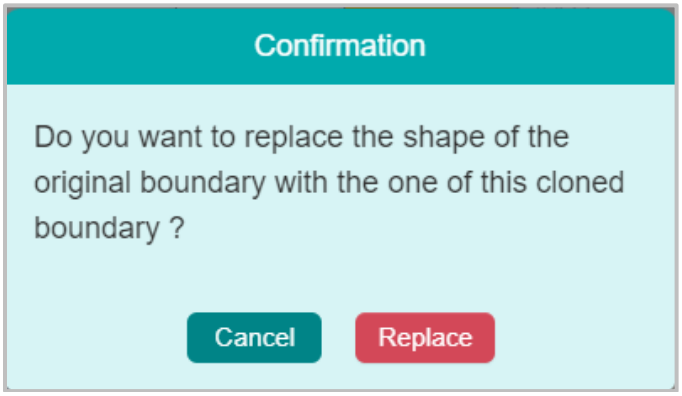
Grabbing the nodes of the boundary, the user will adjust the shape to meet the user’s needs.



6. Once the user has completed adjusting the boundaries shape, select save within the Map Panel tool bar.



Selecting ‘Save’ will populate the confirmation window asking the user if they would like to replace the original boundary with the new cloned boundary.



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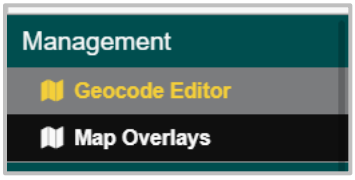
2. Create New Boundary

The district has tasked you with creating a new walk boundary for Roseville High School, and to do so you use the editing tool within the Map Panel.

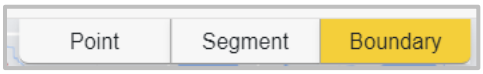
Here’s How:

1. Navigate to the “Geocode Editor” in the action bar.

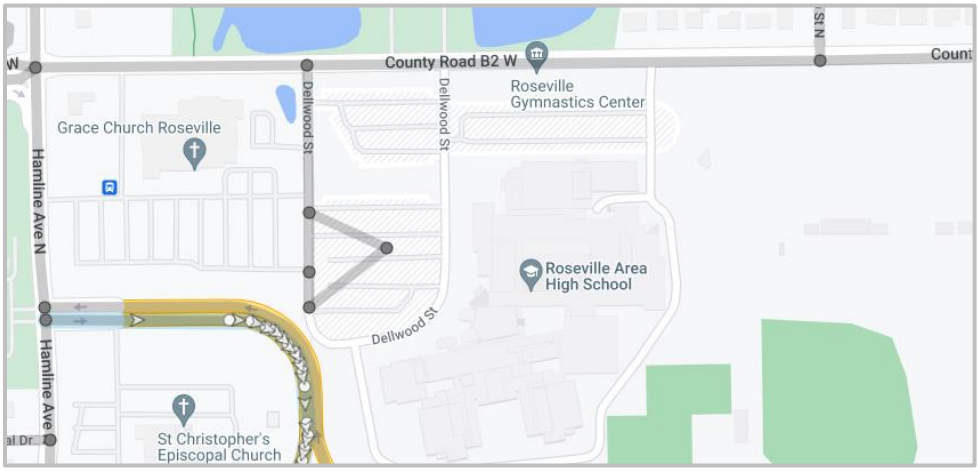


2. **Layers:**
   At the top of the Map Panel the user will find different layers to taggle between when working in the Geocode module:
   - Point
   - Segment
   - Boundary

   Select the Boundary Layer.

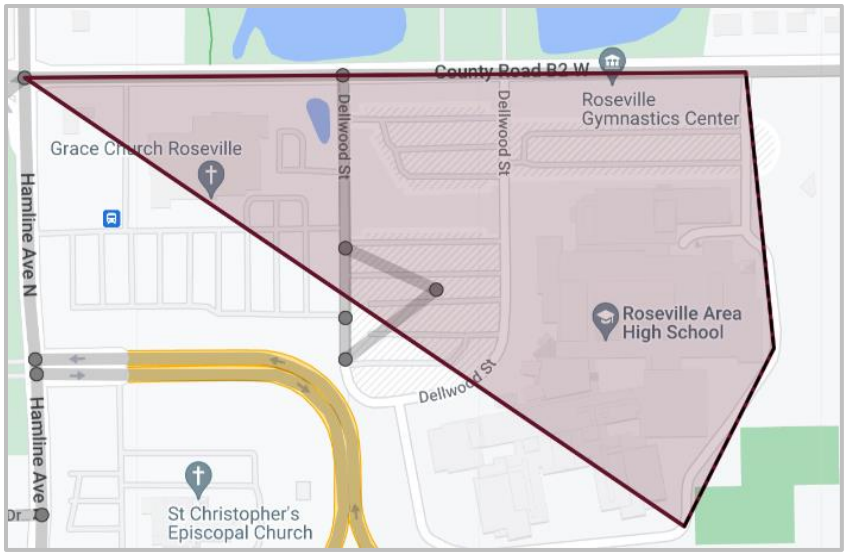


3. **Create New Boundary:**
   Entering the Boundary layer, the user will locate the school on the map utilizing the zoom and grab tools within the map panel.

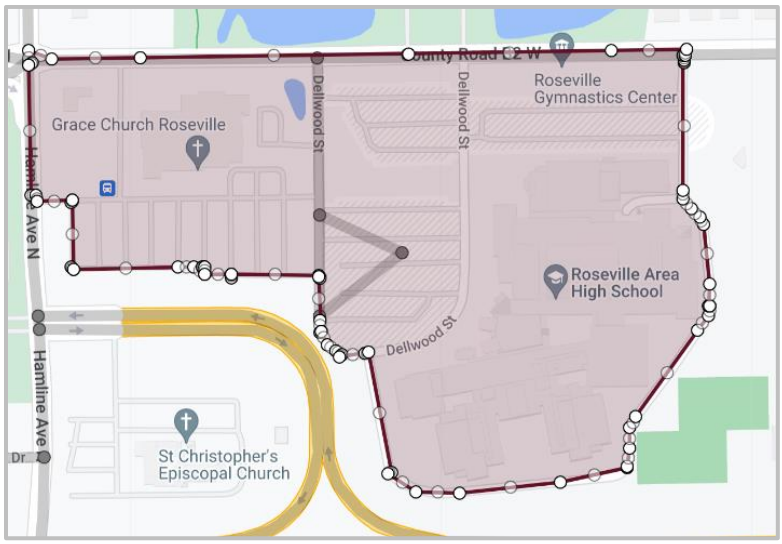


3.1 Once the school has been located, navigate to the tool bar located in the top left corner of the Map Panel, and select the “Edit” tool. The tool will highlight yellow when selected.

When the editor tool is enabled the user’s cursor will change to a plus sign. To begin drawing the boundary the user will click on a border point, a line will attach to the cursor, and the user will continue to select boundary points surrounding the school.

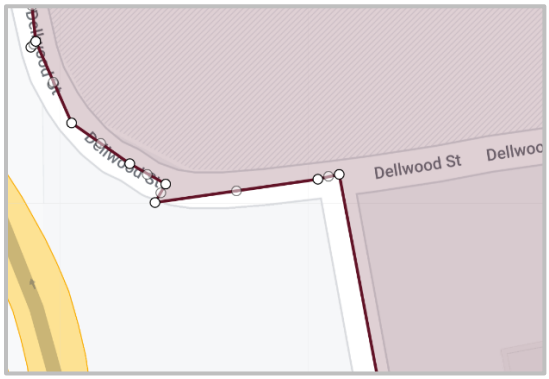


To exit the editing tool, click on the first boundary node, and the boundary will snap into place, automatically adding nodes that follow the graphic street segments.



3.2 Once the user is done drawing the boundary, zoom in closer to view the street nodes, and clean up the nodes that are not appropriately bordering the street as seen below.

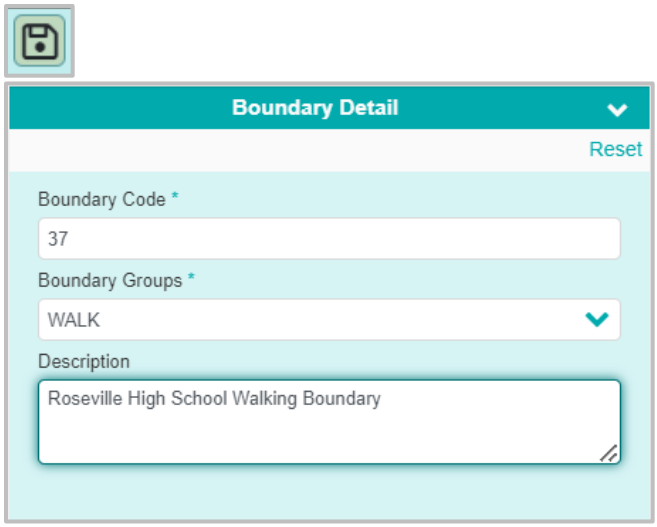
Before:



After:

3.3 Boundary Detail:

To save the boundary the user will fill out the appropriate details in the “Boundary Detail” card of the Workspace Panel, and select the save button within the Map Panel tool bar.



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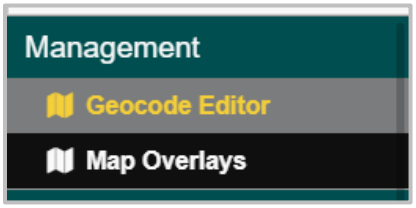
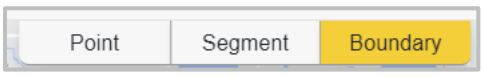
3. Remove Boundary Vertex

The district has recently made adjustments to their school boundaries, and the attendance boundary for school 101A has been affected by these changes. A section of the previous boundary needs to be removed in Athena to reflect the changes made by the district. Using the Remove Boundary Vertex tool, the user can easily remove the section of the affected boundary, and retain and apply those changes in Athena.

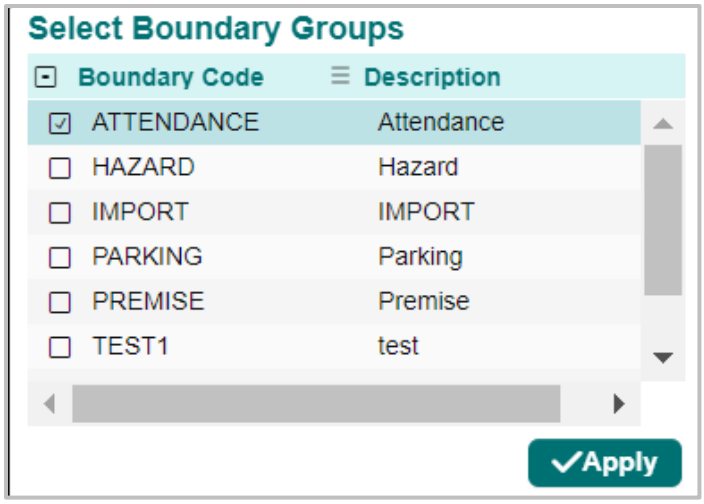
1. Navigate to the “Geocode Editor” in the action bar.



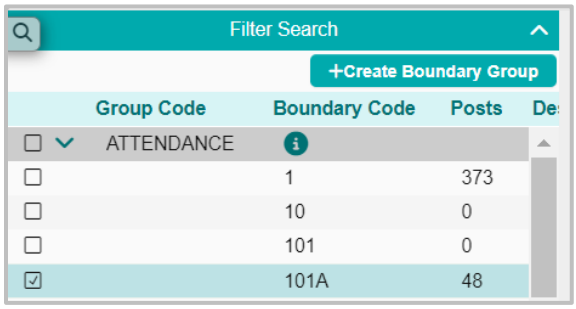
2. **Layers:**
   Select the Boundary Layer.



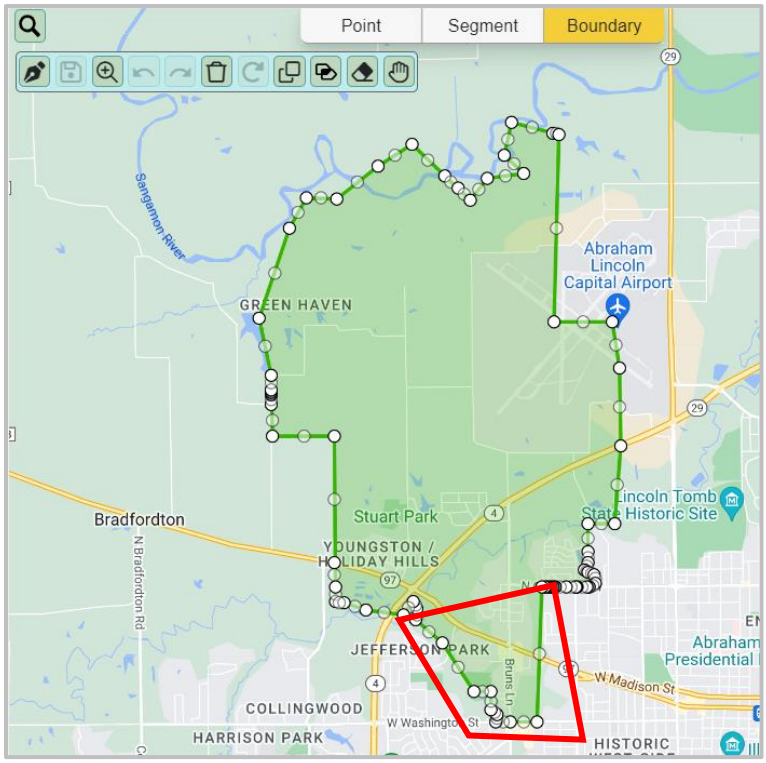
3. In the search tray select the Attendance Boundary, and ‘Apply’.



4. Select the boundary in the Data Panel to view it graphically on the map.

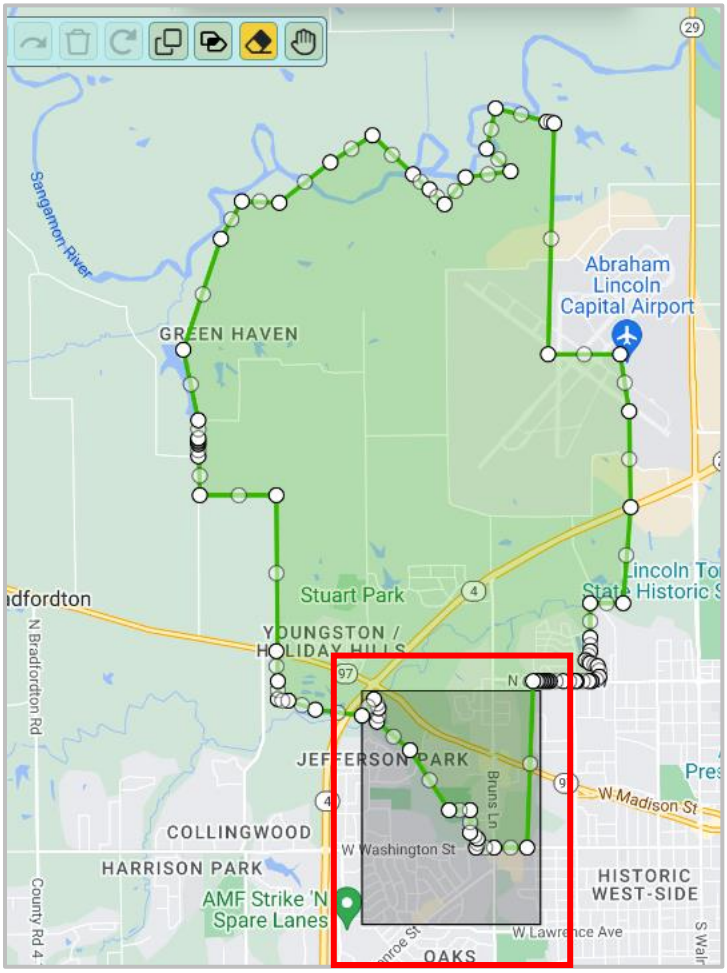


Note the section of the posted attendance boundary we will be removing using the “Remove Boundary Vertex” tool.

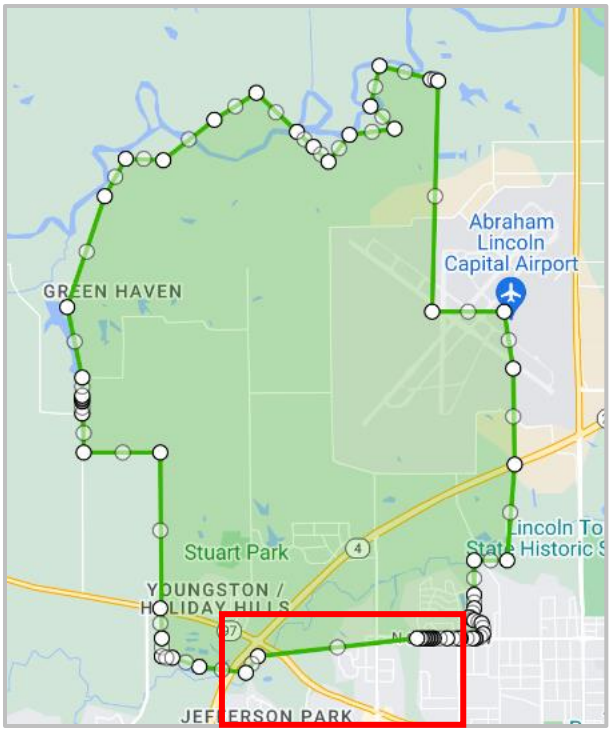


5. Once the boundary is selected in the Data Panel, select the “Remove Boundary Vertex” tool within the map toolbar.

Once the tool is selected, draw a perimeter around the section of the boundary that needs to be removed by left-clicking and holding on your mouse, and dragging the grey box around the appropriate section.



Once the left-click is released the section within the grey box will automatically be removed from the larger boundary.



6. Once the user has approved the changes, select the “Save” tool within the map toolbar to retain the changes to the boundary posting.